

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A device for displaying a picture in a mobile terminal, which comprises:

a direction detecting section comprising at least one magnet fixed within the mobile terminal and a plurality of sensors for detecting the magnet in order to detect the direction in which the mobile terminal is turned and generating a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data;

wherein the plurality of sensors correspond to one particular magnet of the at least one magnets, and the one particular magnet is detected by the plurality of sensors.

2. (original) The device according to claim 1, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

3. (original) The device according to claim 1, wherein said direction detecting section comprises:

first and second magnets fixed within the mobile terminal; and

a first sensor, a second sensor, a third sensor, and a fourth sensor for detecting the first and second magnets according to the direction in which the mobile terminal is turned and generating a corresponding direction detecting signal.

4. (previously presented) A device for displaying a picture in a mobile terminal, which comprises:

a camera module for photographing an image signal;

an image processing section for processing the image signal photographed by the camera module in a display picture size;

a direction detecting section comprising at least one magnet fixed within the mobile terminal and a plurality of sensors for detecting the magnet in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data;

wherein the plurality of sensors correspond to one particular magnet of the at least one magnets, and the one particular magnet is detected by the plurality of sensors.

5. (original) The device according to claim 4, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated

6. (previously presented) A device for displaying a picture in a mobile terminal, which comprises:

a tuner for receiving a composite television video signal broadcast on a selected channel;

a decoder for decoding the composite video signal to generate an analog video signal and a synchronizing signal;

a video processing section for converting the analog video signal into a digital video data, processing the digital video data in a frame size and outputting a frame video signal and user data in the frame;

a direction detecting section comprising at least one magnet fixed within the mobile terminal and a plurality of sensors for detecting the magnet in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data;

wherein the plurality of sensors correspond to one particular magnet of the at least one magnets, and the one particular magnet is detected by the plurality of sensors.

7. (original) The device according to claim 6, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated

8. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a direction detecting section comprising at least one projection fixed on the mobile terminal and a plurality of sensors for detecting the projection in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data.

9. (withdrawn) The device according to claim 8, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

10. (withdrawn) The device according to claim 8, wherein said direction detecting section comprises:

a first projection, a second projection, a third projection, and a fourth projection fixed on the mobile terminal; and

a first sensor, a second sensor, and a third sensor for detecting the first projection, the second projection, the third projection and the fourth projection according to the direction in which the mobile terminal is turned and generating a corresponding direction detecting signal.

11. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a camera module for photographing an image signal;

an image processing section for processing the image signal photographed by the camera module in a display picture size;

a direction detecting section comprising at least one projection fixed on the mobile terminal and a plurality of sensors for detecting the projection in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data.

12. (withdrawn) The device according to claim 11, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

13. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

- a tuner for receiving a composite television video signal broadcast on a selected channel;
- a decoder for decoding the composite video signal to generate an analog video signal and a synchronizing signal;
- a video processing section for converting the analog video signal into a digital video data, processing the digital video data into a frame size and outputting a frame video signal and user data in the frame;
- a direction detecting section comprising at least one projection fixed on the mobile terminal and a plurality of sensors for detecting the projection in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signals;
- a control section for outputting picture data having an orientation based on the detected direction; and
- a display section for displaying the picture data.

14. (withdrawn) The device according to claim 13, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

15. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a direction detecting section comprising at least one projection and at least one magnet fixed on or in the mobile terminal and a plurality of sensors for detecting the projection or the magnet in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signals;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data.

16. (withdrawn) The device according to claim 15, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

17. (withdrawn) The device according to claim 15, wherein said direction detecting section comprises:

one projection and first and second magnets fixed on or in the mobile terminal; and

a first sensor, a second sensor, and a third sensor for detecting the projection and the magnets according to the direction in which the mobile terminal is turned and generating a corresponding direction detecting signal.

18. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a camera module for photographing an image signal;

an image processing section for processing the image signal photographed by the camera module in a display picture size;

a direction detecting section comprising at least one projection and at least one magnet fixed on or in the mobile terminal and a plurality of sensors for detecting the projection or the magnet in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data.

19. (withdrawn) The device according to claim 18, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

20. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a tuner for receiving a composite television video signal broadcast on a selected channel;

a decoder for decoding the composite video signal to generate an analog video signal and a synchronizing signal;

a video processing section for converting the analog video signal into a digital video data, processing the digital video data in a frame size and outputting a frame video signal and user data in the frame;

a direction detecting section comprising at least one projection or at least one magnet fixed on or in the mobile terminal and a plurality of sensors for detecting at least one of the projection and the magnet in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data.

21. (withdrawn) The device according to claim 20, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

22. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a direction detecting section comprising a magnet fixed within the mobile terminal and a plurality of sensors for detecting the polarity of the magnet in order to detect the direction in which the mobile terminal is turned and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signals;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data.

23. (withdrawn) The device according to claim 22, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

24. (withdrawn) The device according to claim 22, wherein said direction detecting section includes:

a magnet fixed within the mobile terminal;

first and second sensors for detecting the N pole of the magnet; and
third and fourth sensors for detecting the S pole of the magnet.

25. (withdrawn) The device according to claim 22, wherein said direction detecting section includes:

a magnet fixed within the mobile terminal; and

first and second sensors for detecting the N pole and S pole of the magnet.

26. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a direction detecting section comprising a magnet fixed within the mobile terminal, first and second sensors for detecting the N pole of the magnet and third and fourth sensors for detecting the S pole of the magnet in order to detect the direction in which the mobile terminal is turned according to the pole detected by one of the four sensors and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data having an orientation based on the detected direction; and

a display section for displaying the picture data.

27. (withdrawn) The device according to claim 26, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

28. (withdrawn) A device for displaying a picture in a mobile terminal, which comprises:

a direction detecting section comprising a magnet fixed within the mobile terminal and first and second sensors for detecting the N and S poles of the magnet in order to detect the direction in which the mobile terminal is turned according to the

pole detected by one of the two sensors and generate a first direction detecting signal, a second direction detecting signal, a third direction detecting signal, and a fourth direction detecting signal;

a control section for outputting picture data in an upright direction having an orientation based on the detected direction; and

a display section for displaying the picture data.

29. (withdrawn) The device according to claim 28, wherein said control section outputs data in an upright direction when the first direction detecting signal is generated, in a direction turned 90° counter-clockwise when the second direction detecting signal is generated, in a direction turned 180° when the third direction detecting signal is generated, or in a direction turned 270° counter-clockwise when the fourth direction detecting signal is generated.

30. (previously presented) A method for displaying a picture on a mobile terminal which includes a direction detecting section comprising at least one fixed magnet and a plurality of sensors for detecting the magnet, said method comprising the steps of:

detecting a direction signal indicating the direction in which the mobile terminal is turned, using the sensors for detecting the magnet; and

outputting and displaying picture data in an orientation based on the detected signal;

wherein the plurality of sensors correspond to one particular magnet of the at least one magnets, and the one particular magnet is detected by the plurality of sensors.

31. (original) The method according to claim 30, wherein when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, outputting and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, outputting and displaying the picture data in a direction turned 270° counter-clockwise.

32. (previously presented) The method according to claim 30, wherein said direction detecting section comprises first and second magnets and a first sensor, a second sensor, a third sensor and a fourth sensor for detecting the first and second magnets, and the direction detection section generates:

a first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

a second direction signal when the second sensor detects the first magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

a third direction signal when the second sensor detects the first magnet and simultaneously the third sensor detects the second magnet, thereby displaying the picture data in a direction turned 180°; and

a fourth direction signal when the first sensor detects the first magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.

33. (previously presented) A method for displaying a picture on a mobile terminal which includes a direction detecting section comprising at least one fixed magnet and a plurality of sensors for detecting the magnet, said method comprising the steps of:

detecting a direction signal indicating the direction in which the mobile terminal is turned, using a sensor contacting the magnet; and

outputting and displaying picture data in an orientation based on the detected signal;

wherein the plurality of sensors correspond to one particular magnet of the at least one magnets, and the one particular magnet is detected by the plurality of sensors.

34. (original) The method according to claim 33, wherein when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, outputting and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, outputting and displaying the picture data in a direction turned 270° counter-clockwise.

35. (previously presented) The method according to claim 33, wherein said direction detecting section comprising first and second magnets and a first sensor, a second sensor, a third sensor and a fourth sensor for detecting the first and second magnets, and the direction detecting section generates:

a first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

a second direction signal when the second sensor detects the first magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

a third direction signal when the second sensor detects the first magnet and simultaneously the third sensor detects the second magnet, thereby displaying the picture data in a direction turned 180°; and

a fourth direction signal when the first sensor detects the first magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.

36. (withdrawn) A method for displaying a picture on a mobile terminal which includes a direction detecting section comprising at least one projection and a plurality of sensors for detecting the projection, said method comprising the steps of:

- detecting a direction signal indicating the direction in which the mobile terminal is turned, using a sensor contacting the projection; and
- outputting and displaying picture data in an orientation based on the detected signal.

37. (withdrawn) The method according to claim 36, wherein when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, outputting and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, outputting and displaying the picture data in a direction turned 270° counter-clockwise.

38. (withdrawn) The method according to claim 36, wherein said direction detecting section, if composed of first and second projections fixed on the outer side of a folder of the mobile terminal, second and fourth projections fixed on the inner side of the folder, and first, second and third sensors for detecting the first, second, third and fourth projections, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the third projection, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the second sensor detects the first projection and simultaneously the third sensor detects the second projection, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the first sensor detects the first projection, thereby displaying the picture data in a direction turned 270° counter-clockwise.

39. (withdrawn) A method for displaying a picture on a mobile terminal which includes a direction detecting section comprising at least one projection and a plurality of sensors for detecting the projection, said method comprising the steps of:

detecting a direction signal indicating the direction in which the mobile terminal is turned, using a sensor contacting the projection;

when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, generating full size picture data and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, generating full size picture data and displaying the picture data in a direction turned 270° counter-clockwise.

40. (withdrawn) The method according to claim 39, wherein when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, outputting and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, outputting and displaying the picture data in a direction turned 270° counter-clockwise.

41. (withdrawn) The method according to claim 39, wherein said direction detecting section, if composed of first and second projections fixed on the outer side of a folder of the mobile terminal, second and fourth projections fixed on the inner side of the folder, and first, second and third sensors for detecting the first, second, third and fourth projections, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the third projection, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the second sensor detects the first projection and simultaneously the third sensor detects the second projection, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the first sensor detects the first projection, thereby displaying the picture data in a direction turned 270° counter-clockwise.

42. (withdrawn) A method for displaying a picture on a mobile terminal which includes a direction detecting section comprising at least one projection, at least one magnet and a plurality of sensors for detecting the projection or the magnet, said method comprising the steps of:

detecting a direction signal indicating the direction in which the mobile terminal is turned, using a sensor contacting the projection or the magnet; and

outputting and displaying picture data in an orientation based on the detected signal.

43. (withdrawn) The method according to claim 42, wherein when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, outputting and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, outputting and displaying the picture data in a direction turned 270° counter-clockwise.

44. (withdrawn) The method according to claim 42, wherein said direction detecting section, if composed of a projection, first and second magnets and first, second and third sensors for detecting the projection and the first and second magnets, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the second magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the first sensor detects the second magnet and simultaneously the second sensor detects the first magnet, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the first sensor detects the first magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.

45. (withdrawn) A method for displaying a picture on a mobile terminal which includes a direction detecting section comprising at least one projection, at least one magnet and a plurality of sensors for detecting the projection or the magnet, said method comprising the steps of:

detecting a direction signal indicating the direction in which the mobile terminal is turned, using a sensor contacting the projection or the magnet;

when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction; and

outputting and displaying picture data in an orientation based on the detected signal.

46. (withdrawn) The method according to claim 45, wherein when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, outputting and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, outputting and displaying the picture data in a direction turned 270° counter-clockwise.

47. (withdrawn) The method according to claim 45, wherein said direction detecting section, if composed of a projection, first and second magnets and first, second and third sensors for detecting the projection and the first and second magnets, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the second magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the first sensor detects the second magnet and simultaneously the second sensor detects the first magnet, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the first sensor detects the first magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.

48. (withdrawn) A method for displaying a picture on a mobile terminal which includes a direction detecting section comprising a fixed magnet and a plurality of sensors for detecting the polarity of the magnet, said method comprising the steps of:

detecting the polarity of the magnet by one of the sensors; detecting a direction signal indicating the direction in which the mobile terminal is turned according to the detected polarity; and

outputting and displaying picture data in an orientation based on the detected signal.

49. (withdrawn) The method according to claim 48, wherein when no direction signal is received from the sensors, making a determination as to when a first direction signal is detected and outputting and displaying picture data in an upright direction;

when a second direction signal is detected, outputting and displaying the picture data in a direction turned 90° counter-clockwise;

when a third direction signal is detected, displaying the picture data in a direction turned 180°; and

when a fourth direction signal is detected, outputting and displaying the picture data in a direction turned 270° counter-clockwise.

50. (withdrawn) The method according to claim 48, wherein said direction detecting section, if composed of a magnet fixed within the mobile terminal, first and second sensors for detecting the N pole of the magnet and third and fourth sensors for detecting the S pole of the magnet, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the N pole of the magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the fourth sensor detects the S pole of the magnet, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the third sensor detects the S pole of the magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.

51. (withdrawn) The method according to claim 48, wherein said direction detecting section, if composed of a magnet fixed within the mobile terminal, first and second sensors for detecting the S pole of the magnet and third and fourth sensors for detecting the N pole of the magnet, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the S pole of the magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the fourth sensor detects the N pole of the magnet, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the third sensor detects the N pole of the magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.

52. (withdrawn) The method according to claim 48, wherein said direction detecting section, if composed of a magnet fixed within the mobile terminal and first and second sensors for detecting the N and S poles of the magnet, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the N pole of the magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the second sensor detects the S pole of the magnet, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the first sensor detects the S pole of the magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.

53. (withdrawn) The method according to claim 48, wherein said direction detecting section, if composed of a magnet fixed within the mobile terminal and first and second sensors for detecting the N and S poles of the magnet, generates:

the first direction signal when no direction detecting signal is output from the sensors, thereby displaying the picture data in the upright direction;

the second direction signal when the second sensor detects the S pole of the magnet, thereby displaying the picture data in a direction turned 90° counter-clockwise;

the third direction signal when the second sensor detects the N pole of the magnet, thereby displaying the picture data in a direction turned 180°; and

the fourth direction signal when the first sensor detects the N pole of the magnet, thereby displaying the picture data in a direction turned 270° counter-clockwise.